



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L15-840-DIM-UNV-LW-OF-CS-IP_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10-21-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CASTCLEAR SEMI SPECULAR FLUSH TRIM w/SOLITE

[MORE] LENS

[LUMCAT] 6DS-L15-840-DIM-UNV-LW-OF-CS-IP

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14583	16830	14262
55	11364	11646	11251
65	7903	7903	7673
75	5012	4886	4761
85	1116	744	1488

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1057.658	1057.658	1057.658	1057.658	1057.658
5	1060.674	1055.397	1055.397	1054.643	1056.904
10	1050.873	1046.350	1045.596	1041.827	1047.858
15	1036.550	1029.012	1022.981	1019.965	1022.981
20	985.288	995.842	1001.119	987.550	974.734
25	863.164	887.287	952.118	896.333	866.933
30	644.546	719.931	812.655	725.208	645.300
35	395.020	475.682	637.007	449.297	396.528
40	298.526	327.927	436.482	315.111	294.757
45	239.726	254.049	276.665	247.264	234.449
50	192.233	200.525	206.556	196.002	192.233
55	151.525	151.525	155.294	152.279	150.017
60	110.063	110.817	109.309	109.309	111.570
65	77.647	77.647	77.647	76.893	75.385
70	51.262	50.508	47.493	49.754	50.508
75	30.154	29.400	29.400	28.646	28.646
80	16.585	15.077	14.323	14.323	14.323
85	2.262	3.015	1.508	2.262	3.015
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	389.51	N.A.	24.90
0-30	793.64	N.A.	50.70
0-40	1111.63	N.A.	71.00
0-60	1450.84	N.A.	92.60
0-80	1560.86	N.A.	99.70
0-90	1566.17	N.A.	100.00
10-90	1465.71	N.A.	93.60
20-40	722.12	N.A.	46.10
20-50	924.26	N.A.	59.00
40-70	416.84	N.A.	26.60
60-80	110.02	N.A.	7.00
70-80	32.39	N.A.	2.10
80-90	5.31	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1566.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.46
10-20	289.06
20-30	404.12
30-40	317.99
40-50	202.14
50-60	137.07
60-70	77.63
70-80	32.39
80-90	5.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	49
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

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UGR TABLE - CORRECTED

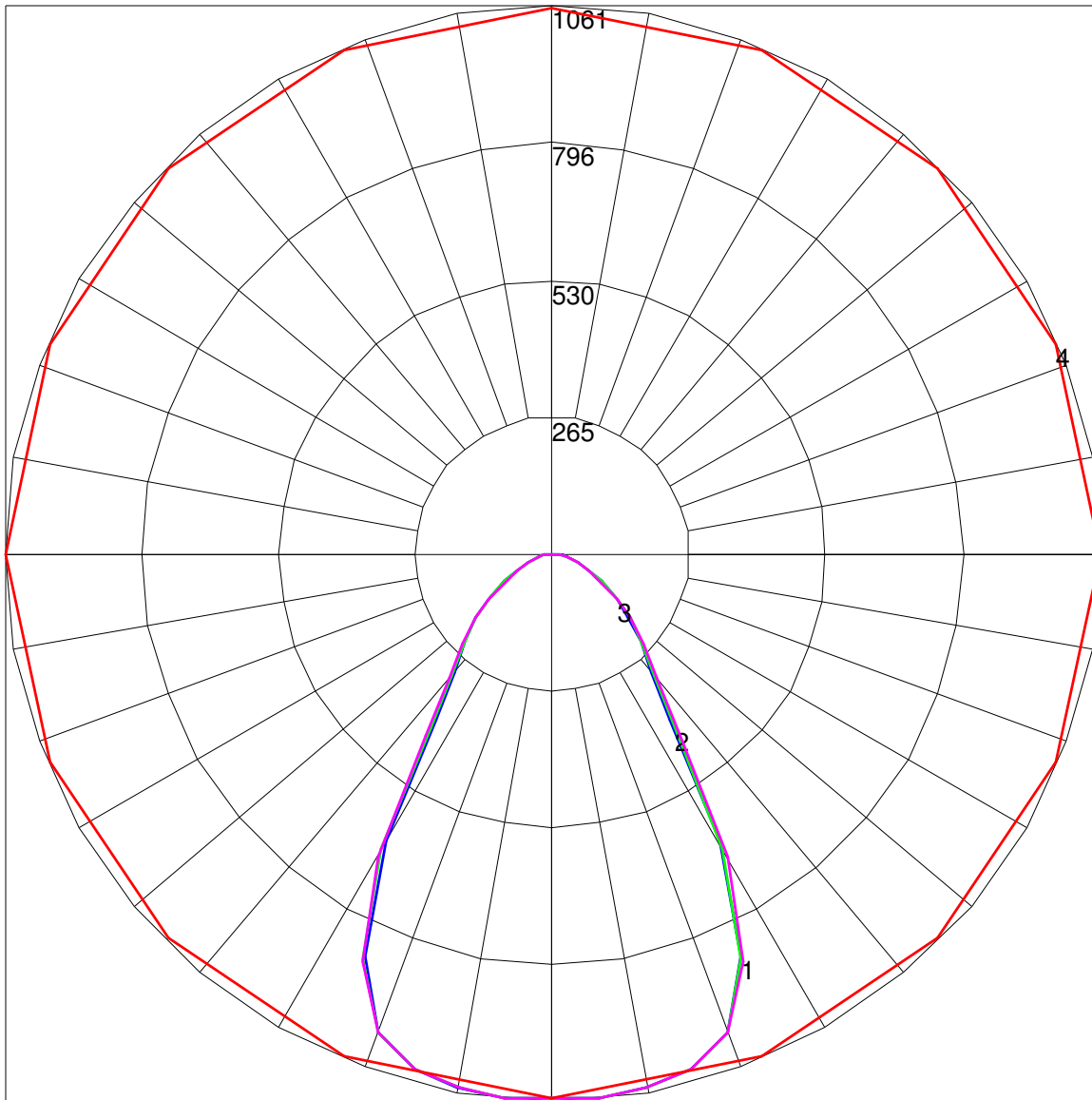
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.4	19.7	18.8	20.0	20.3	18.4	19.7	18.8	20.0	20.3
	3H	19.4	20.6	19.8	20.9	21.2	19.4	20.5	19.7	20.8	21.2
	4H	19.7	20.7	20.1	21.1	21.5	19.6	20.7	20.0	21.0	21.4
	6H	19.8	20.8	20.3	21.2	21.6	19.7	20.7	20.2	21.1	21.5
	8H	19.9	20.8	20.3	21.2	21.6	19.7	20.7	20.2	21.1	21.5
	12H	19.8	20.7	20.3	21.1	21.5	19.7	20.6	20.1	21.0	21.4
4H	2H	18.7	19.8	19.2	20.2	20.5	18.7	19.8	19.1	20.1	20.5
	3H	19.9	20.8	20.3	21.2	21.6	19.8	20.7	20.2	21.1	21.5
	4H	20.2	21.0	20.7	21.4	21.9	20.2	20.9	20.6	21.4	21.8
	6H	20.5	21.1	20.9	21.6	22.0	20.4	21.0	20.8	21.5	21.9
	8H	20.5	21.1	20.9	21.6	22.0	20.4	21.0	20.8	21.4	21.9
	12H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.8	21.4	21.9
8H	4H	20.3	20.9	20.8	21.4	21.8	20.2	20.9	20.7	21.3	21.8
	6H	20.6	21.1	21.1	21.6	22.1	20.5	21.0	21.0	21.5	22.0
	8H	20.6	21.1	21.2	21.6	22.1	20.5	21.0	21.0	21.5	22.0
	12H	20.6	21.0	21.2	21.5	22.1	20.5	20.9	21.0	21.4	22.0
12H	4H	20.3	20.8	20.8	21.3	21.8	20.2	20.8	20.7	21.2	21.7
	6H	20.6	21.0	21.1	21.5	22.0	20.5	20.9	21.0	21.4	21.9
	8H	20.6	21.0	21.2	21.5	22.1	20.5	20.9	21.0	21.4	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1060.674 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)